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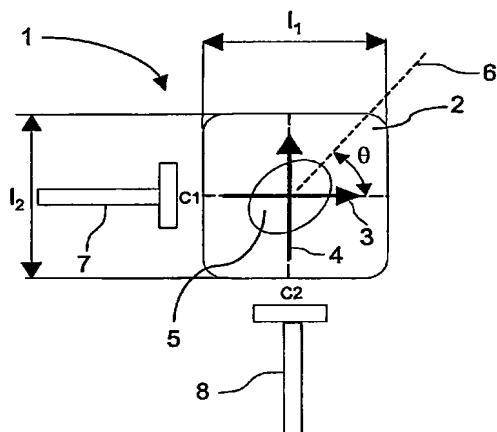
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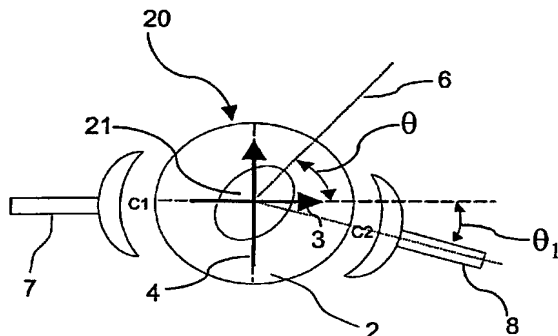
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(54) Title: DUAL MODE FILTER BASED ON SMOOTHED CONTOUR RESONATORS



(57) Abstract: A planar filter comprising a planar resonator (1, 20) including a conductive region (2, 21) having smoothed contours and supporting a first resonating mode propagating along a first conductive path (3) and a second resonating mode propagating along a second conductive path (4), perpendicular to the first conductive path. The planar filter also comprises a conductor-free region (5) made in the conductive region (2, 21) and having smoothed contours. The conductor-free region (5) is disposed along a region axis (6) forming an angle θ with respect to the first conductive path (3). The conductor-free region (5) causes a perturbation of the symmetry of the planar resonator (1, 20) resulting in a frequency shift of the first and the second resonating mode and their mutual coupling.





SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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